

J. A. FAY & CO'S

Patentees and Manufacturers of

LABOR SAVING MACHINES.

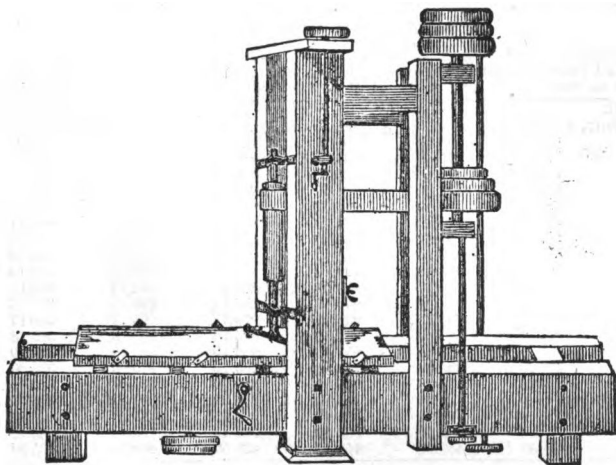


Which drew the PRIZE MEDAL at the WORLD'S FAIR,
At London, in 1851, and for which the *American*
Institute of New York, the *Maryland Institute* of
Baltimore, the *Franklin Institute* of Phila-
delphia, the *Massachusetts Charitable*
Mechanic Association of Boston,

Have Awarded Silver Medals & Diplomas.

DANIEL'S PLANER,

With Reed's Feed Motion, and Gilbert's Improvement for Elevating the Cutters, with a variety of Attachments calculated to make a more complete machine.



The advantages of Reed's Feed Motion, are,

- 1st. The Carriage is drawn from its centre.
- 2d. It is drawn by a downward turning pinion gear, working above the rack, thus preventing any rising motion of the carriage.
- 3d. All belts and gears below the machine are dispensed with, and put above, and out of the way of shavings, &c.
- 4th. The shipper handles are all distant from the cutters, at a convenient point, near each other.

This Planer is the greatest labor-saving Planing Machine ever applied to both Square Timber and Boards. It will plane Deck Plank, and Railroad Car Sills 60 feet long—Panels $\frac{1}{4}$ inch thick and 3 feet wide—try out and square up Piano Forte Cases full size, and is easily applied to any piece of wood, where a true and even surface is required.

When Dead Weight is on, each Machine will plane 3 inches less in width.

This machine is well known throughout the country, where so many hundreds of them are in operation, and their merits have been so thoroughly tested, no further recommendation is needed. These machines are used for squaring up stuff of all kinds for machinery, mill work, railroad cars, bedsteads, and planing plank, boards, coach

and car pannels, &c. Different sizes are made to plane from 5 to 80 feet long, 8 to 42 inches wide, and one quarter to 36 inches thick. Having been recently much improved, we now offer it with full confidence of public approval.

The recent improvements upon this Machine make it much more desirable, as it works with greater facility, and planes both ways, when desired.

PRICES OF DANIEL'S PLANER :

| No. 1 Planes 16 in. wide. | No. 2 Planes 20 in. wide. | No. 3 Planes 24 in. wide. | No. 4 Planes 27 in. wide. | No. 5 Planes 31 in. wide. | No. 6 Planes 35 in. wide. | No. 7 Planes 42 in. wide. |
|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 5 ft. long, \$135 | 5 ft. long, \$160 | 5 ft. long, \$185 | 5 ft. long, \$210 | 5 ft. long, \$235 | 5 ft. long, \$260 | 5 ft. long, \$285 |
| 6 | 140 6 | 165 6 | 190 6 | 215 6 | 240 6 | 265 6 |
| 7 | 145 7 | 170 7 | 195 7 | 220 7 | 245 7 | 270 7 |
| 8 | 150 8 | 175 8 | 200 8 | 225 8 | 250 8 | 275 8 |
| 9 | 155 9 | 180 9 | 205 9 | 230 9 | 255 9 | 280 9 |
| 10 | 160 10 | 185 10 | 210 10 | 235 10 | 260 10 | 285 10 |
| 11 | 165 11 | 190 11 | 215 11 | 240 11 | 265 11 | 290 11 |
| 12 | 170 12 | 195 12 | 220 12 | 245 12 | 270 12 | 295 12 |
| 13 | 175 13 | 200 13 | 225 13 | 250 13 | 275 13 | 300 13 |
| 14 | 180 14 | 205 14 | 230 14 | 255 14 | 280 14 | 305 14 |
| 15 | 185 15 | 210 15 | 235 15 | 260 15 | 285 15 | 310 15 |
| 16 | 190 16 | 215 16 | 240 16 | 265 16 | 290 16 | 315 16 |
| 17 | 195 17 | 220 17 | 245 17 | 270 17 | 295 17 | 320 17 |
| 18 | 200 18 | 225 18 | 250 18 | 275 18 | 300 18 | 325 18 |
| 19 | 205 19 | 230 19 | 255 19 | 280 19 | 305 19 | 330 19 |
| 20 | 210 20 | 235 20 | 260 20 | 285 20 | 310 20 | 335 20 |
| 25 | 235 25 | 260 25 | 285 25 | 310 25 | 335 25 | 360 25 |
| 30 | 260 30 | 285 30 | 310 30 | 335 30 | 360 30 | 385 30 |
| 35 | 285 35 | 310 35 | 335 35 | 360 35 | 385 35 | 410 35 |
| 40 | 310 40 | 335 40 | 360 40 | 385 40 | 410 40 | 435 40 |
| 50 | 360 50 | 385 50 | 410 50 | 435 50 | 460 50 | 485 50 |

Extra Cutters, by the doz., $\frac{5}{8}$ square, \$3—half inch square, by the dozen, \$2.

The above prices include the Dead Weight and Fixtures complete, and should they not be wanted, \$15 will be discounted.

FAY & CO.'S BORING MACHINES.

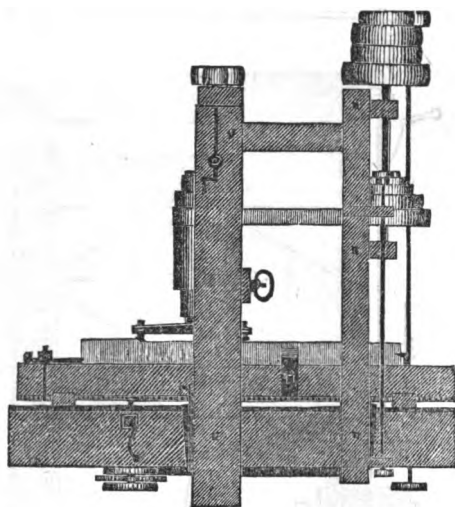
For this machine the American Institute awarded a Premium at the Fair, October, 1848; and having recently been much improved, we offer it to the labor-saving community with confidence that it will give universal satisfaction. It bores for blind stiles from one to sixteen holes at the same time and in the most perfect manner, and also rounds the tenons for rolling slats for blinds.

We also manufacture Boring Machines for Car builders and for other kinds of heavy work, which are admired for the precision of boring without laying out.

FAY & CO.'S SCROLL SAW.

The public have long felt the need of an article for this kind of work, without the use of a gate or frame to hold the saw, and which is very much in the way of turning the stuff. That desideratum has been obtained in the one we now offer to the public, and which has given the most perfect satisfaction.

DANIELS'S PLANING MACHINE.

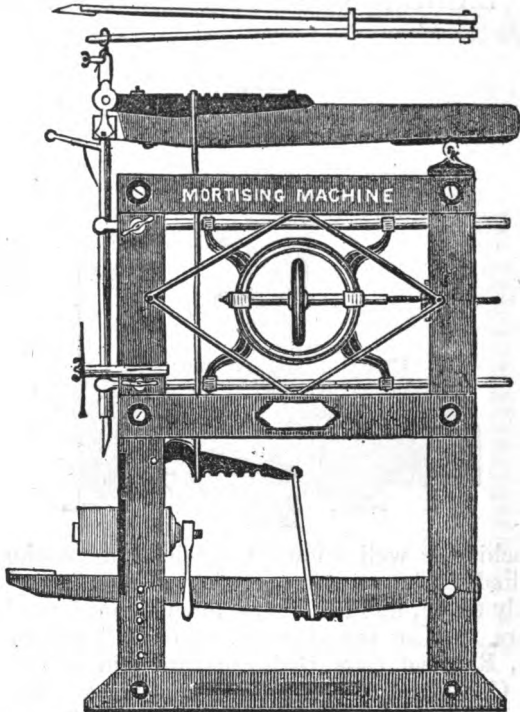


This machine is well known throughout the country, where so many hundreds of them are in operation, and their merits have been so thoroughly tested, no further recommendation, is needed. These machines are used for squaring up stuff of all kinds for Machinery, Mill Work, Railroad Cars, Bedsteads, and planing Plank, Boards, Coach and Car pannels, &c. Different sizes are made to plane from 7 to 40 feet long, 8 to 36 inches wide, and one quarter to 36 inches thick.

CASH PRICES AT THE FACTORY :

| To Plane. | No. 2. 18 in. wide. | No. 1. 24 in. wide. | No. 0. 30 in. wide. | No. 00. 36 in. wide. |
|---------------|------------------------|------------------------|------------------------|-------------------------|
| 7 feet long, | \$155 | \$180 | \$200 | \$225 |
| 9 do | 165 | 190 | 215 | 240 |
| 10 do | 170 | 195 | 220 | 245 |
| 12 do | 180 | 205 | 230 | 255 |
| 15 do | 190 | 215 | 240 | 265 |
| 17 do | 200 | 225 | 250 | 275 |
| 20 do | 210 | 235 | 260 | 285 |
| 22 do | 215 | 240 | 265 | 290 |
| 24 do | 225 | 250 | 275 | 300 |
| Dead weights, | 20 | 20 | 25 | 25 |

Extra Cutters, by the doz. 5-S square, \$3—half inch square, by the doz. \$2.

FAY & CO.'S MORTISING MACHINE,


Having received the First Premium from the American Institute, October 1845, '46, '47 and '48, and been so long and favorably known and used, throughout this and foreign countries, needs no other recommendation—especially after having the experience of making nearly five thousand machines. We have the names of hundreds of Carpenters and Joiners, Sash and Blind Makers, Railroad Car Builders, Cabinet and Piano forte Makers, who cheerfully recommend these machines in the highest terms.

LARGE FOOT MORTISING MACHINE,

WITH HUB FRAME ATTACHED, FOR MORTISING HUBS.

This Frame is so arranged as to receive any size of Hub not exceeding ten by fifteen inches, and will give ten, twelve, fourteen, or sixteen Mortises—for the Spokes of any size or bevel wanted. This Frame is detached by one bolt, which leaves the Machine (by applying the rest,) complete for all kinds of straight and bevel work.

The full capacity of this Machine is to mortise stuff eighteen inches wide by eight inches thick. Plank thirty feet long, ten inches wide by three thick have been mortised, and it is often that a two-inch mortise is cut in hard wood with this Machine.

The following extras apply both to our large and small Foot Machines :

THE DOUBLE CHISEL, FOR SASH WORK.

It has two edges with a V shape between.—It is pressed into the Sash Bar a little more than half way through when the Bar is turned, and by an impression on the opposite side the mortise is made.

THE BLIND SLAT CHISEL

Is used for making the groove for the Blind Slat in the Stile, the length of which being less than the width of Stile and corresponding with the width of the Slat. The Slat enters this groove, and is by it confined in its place without mouldings or brads. These Chisels will cut a groove 3-16 of an inch wide, $1\frac{1}{2}$, $1\frac{3}{4}$, or 2 inches long

THE PIN TOOL AND POINTER

Makes both hard and soft wood Pins for Sash, Blinds, Bedsteads, &c., varying in size from $\frac{1}{4}$ to $\frac{3}{8}$ of an inch. Pine Pins are pointed in the Pointer by one blow from a hammer.

STANDARD ROLLS FOR DOOR STILES AND LARGER WORK

Are made to play into a small iron frame, from which extends a bolt which is passed through a slot in an upright joist about three and a half inches square, and by a thumb-nut on the end of the bolt the iron frame is confined to the upright, at an elevation corresponding with the level of the *Rest* of the Machine on which the piece to be mortised is placed, and by these Rolls is easily moved as the chisel cuts away.

THE EXTRA REST,

To mortise through from one side, is confined to the main Rest by a single bolt, and has a piece of very hard wood, standing endwise, which receives the edge of the chisel after it has passed through the Blind Stile. This Rest is made to move endwise on the main Rest, so that when one place becomes worn by the long continued action of the edge of the chisel, it is changed to the extent of the width of the endwise piece. The mortising of Blind Stiles is the most suitable work to be done in this way.

STAPLE PUNCH FOR BLIND RODS AND SLATS.

This tool is inserted in the Machine in place of the chisel, and by the pressure of the foot two holes are made for the small staple.

FAY & CO.'S POWER MORTISING MACHINES.

The public have been long in want of a Power Morticing Machine, that could be operated without the trouble of boring for the mortise, and without stopping the machine at every operation. We now offer them such a Machine, which, being so simple in its operation, may be used by apprentices, and does the work in the best and most expeditious manner.

It is also used for hard wood and heavy work to great advantage, such as Coach and Car building, and manufacturing Agricultural Implements, &c.

The speed of this Machine should be about 350 per minute. It is driven by steam or water power, which gives a vibrating motion to the chisel, and while in motion it is brought down to the work by the foot, and one end of the Mortise is made, when the foot is removed, and the chisel carried up by a balance weight on the opposite end of the treadle, and the chisel reversed by its own motion. It is then brought down and the Mortise is finished. This Machine is quick and powerful, but not so universal in its adaptation to all kinds of work as the Foot Machine.

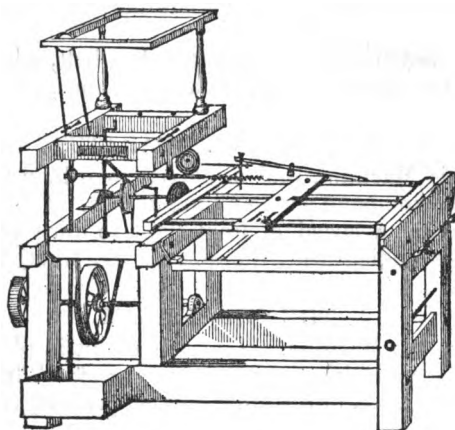
IMPROVED SAW ARBOR, WITH BED AND BOXES ALL COMBINED.

The Bed and Boxes are cast together, and consequently are not affected by any change of the wood frame on which it is bolted.

The Arbor is of Cast Steel, and the pulley is made to take up the wear and prevent a lateral motion. It has a holdfast to confine the Arbor when the Saw is exchanged for the Groover, which is used for grooving Door Stiles, etc. Both the Groover and Saw are confined to the Arbor by a reverse screw nut.

We have three sizes suitable for saws of any size to 20 inches in diameter.

FAY & CO.'S TENONING MACHINE.



Having greatly improved the above machine, by new arrangements of revolving Cutter Heads, Boring Apparatus and Copes for Sash and Beveled Doors, &c., we can with entire confidence recommend it to an enlightened public; and from the high encomiums bestowed upon our machines, we are satisfied that our efforts to furnish the best machine to the public are appreciated. These Machines are used for hard or soft wood, and for tenons of all sizes in general use. For Sash and Beveled Doors, it cuts the tenon and copes one or both sides at the same time.

TENONING MACHINE,

(LARGE SIZE,) FOR RAILROAD AND HEAVY WORK.

The size of this Machine is eight feet long by four feet wide, and is used by most of the Car Builders in the State. It has a carriage upon which the piece to be tenoned, is placed, so contrived with gauges and stops, that setting out is not required; and in fact the tenons are made much more rapidly than they could be set out by hand—the machine being equal to ten hands.

It has a driving apparatus within itself, and so arranged that it is stopped or put in motion at the will of the operator. It has a band running over a weighted pulley, which is so arranged that the tightness of the band is easily adjusted to suit the work.

The Cutters are bolted on to improved Cutter Heads, and of such a shape as to give the *same* bevel the whole width of the iron, which is set by a gauge so simple that a mere boy can set them.

By this arrangement we avoid the mouth of a cylinder, and the

clogging of shavings therein ; also the liability of their bursting, and thereby endangering life. The irons may be sharpened in their places.

The Spurs are held by a small steel key-bolt, which is decidedly better than a key driven by a punch and hammer, which often breaks out.

THE BORING APPARATUS

Applies to this Machine, and is affixed to it by a thumb-nut, and driven by the same band as the Cutter Heads. It has three changes of pulleys, giving a speed of from eight to thirty-two hundred per minute, corresponding with the size of the Bits, from $\frac{1}{4}$ to $1\frac{1}{2}$ in hard wood.

THE CUT-OFF SAW

Applies also to this Machine. The Arbor runs in place of one of the Cutter-Heads, and is driven by the same band. This is used to cut any number of pieces, of the same length, perfectly square, or beveled.

THE LOWER COPE

Is used in this Machine for Coping the Sashes of Passenger Cars, which operation is performed at the same time of that in which the tenons are cut. INDEXES can be affixed to this Machine, by means of which the Machine can be set to cut any depth of shoulder and thickness of tenon, without gauge or measure.

THE EXTENSION ROD

Applies to this Machine, upon which the Spiral Gauge Blocks are affixed, which serves to give the length between shoulders of stuff double the length of the carriage. All our Tenoning Machine Cutter Heads require a speed of about sixteen hundred revolutions per minute.

TENONING MACHINE,

COMMON SIZE, FOR ALL COMMON WORK.

This Machine is six feet by four, and has all the improvements of the large size ; and, in addition, it is also used with both the Lower and Upper Copes, for Bevel and Ogee Doors. Our Double Cutter Heads, which cut a tenon six inches long at one operation, can be used in this Machine.

A Set of Boxes with narrow Cutters, to shoulder Blind Slats, can be affixed to this Machine, by which the shoulder of the Blind Slat is cut a little standing, instead of being cut a little under.

THE PANEL GAUGE

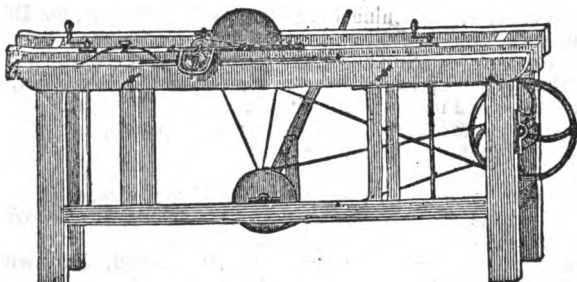
To get the length between the shoulders on Panels, is so contrived that it can be confined on the carriage in such a manner as to give any required length between shoulders, and any length of Rabbeting.

THE TENONING MACHINE, WITH DOUBLE CUTTERS FOR DOORS AND LONG TENONS,

Is three inches longer than the common size, and has two pair of Cutters on each Cutter-Head, by which a tenon six inches long can be cut at one operation, and is the most suitable machine for the Double Copes. All the extras used on the large and common sized Machines can be applied to this.

In cutting Door Tenons this Machine will do the work of fifteen men.

FAY & CO.'S SASH, MOULDING AND SLAT MACHINE,



Has so far exceeded the most sanguine expectation of those having it in use, that it is above praise, and need only to be seen in operation by those in want, to ensure for it a ready sale. It performs more kinds of work, and does it better, than any other machine of the kind extant. And we hereby offer it to an enlightened public for their award, and challenge competition with any other machines.

Persons in want of this machine will please state the different kinds of work they wish to do with it as one kind of business would require a different set of cutters from another kind. This Machine is invaluable to House Carpenters, Sash, Blind and Door Makers, Cabinet Makers, Car Builders, Molding Manufacturers, and various other kinds of work.

SASH AND MOULDING MACHINE.

This Machine is used for Sticking all kinds of Sash, both pine and hard wood; and also for Mouldings, from the smallest size up to six inches, for Rabbeting, and for Planing Blind Slats, and where persons are not supplied with a Planing Machine, it will do a great variety of Planing, to great advantage.

FAY & CO'S MACHINES are in use in Liverpool and London, Egypt, Sandwich Islands, West Indies, Oregon, Valparaiso, Halifax, &c., and throughout the United States.

Cash Prices of J. A. FAY & Co's. Imp'd Machines, at their Factory.

| | |
|---|-------------------------|
| Tenoning Machine, large size, for railroad & heavy work, \$115—boxed | \$120.00 |
| “ “ common size, for all common work, 100 | 105.00 |
| “ “ with Double cutters for doors & long tenons 120 | 125.00 |
| Extra Cutter Heads, with Cutters and Spurs fitted, \$8 each, | 16.00 |
| “ “ with Double Cutters and Spurs fitted, \$12 each | 24.00 |
| Shoulder Saws, in addition to the Spurs, | 3.00 |
| Set of Cutter Heads, boxes \$1.25—Bolts, Nuts and Washers, \$1.25, | 2.50 |
| Extra Cope Cutters, 25 each—extra Tenoning Machine Cutters, each, | 1.00 |
| Lower Cope, \$10.00—Upper Cope, \$10.00—both, | 20.00 |
| “ “ with long counter-shaft for Double Cope, | 12.00 |
| Boring Apparatus, \$10.00—with Auger-Bits, from $\frac{1}{4}$ to 1 inch, | 13.50 |
| Cut-off Saw Arbor, to run in Cutter Head Boxes, | 5.00 |
| Two Indexes to set the Machine by, \$3.00; Hollow Augers, for Blind Slat tenons, | 1.50 |
| Hub-boring Frame for spacing and boring any number of holes, | 2.00 |
| Extension Rod for getting length between shoulders, from 3 to 6 feet, | 2.00 |
| Set of extra Boxes and narrow Cutters to shoulder Blind Slats, | 7.50 |
| Panel Gauge to get the length between shoulders on panels, | 2.00 |
| Tenoning Rest, \$2.00. Spoke Machine, | 100.00 |
| Cut-off Saw Machines, from \$30 to | 50.00 |
| Plug Cutters to cut, and corner plugs from $\frac{1}{2}$ to $1\frac{1}{2}$ inch size, each, | 3.50 |
| Power Mortising Machine, with $\frac{1}{4}$, $\frac{3}{8}$ 7-16, $\frac{1}{2}$ and $\frac{3}{4}$ Chisels, \$100—boxed, | 103.00 |
| Small Foot Mortising Machine, with $\frac{1}{4}$ and $\frac{3}{8}$ Chisels, | 25.00 |
| Large Foot “ “ “ “ “ “ boxed, \$40—with Hub-Frame attached, | 55.00 |
| Extra Chisels, 62 $\frac{1}{2}$ cents each up to 1 inch—over 1 inch, | 1.00 |
| Double Chisel for Sash work, \$1 00; Tenoning Tool for Stage Sash, | 2.00 |
| Blind-Slat Chisel, single cutter, \$3.00—double cutter, \$3.75—treble cutters, | 4.50 |
| Pin Tool and Pointer, | 1.00 |
| Standard Rolls for Door Stiles and larger work, | 2.00 |
| Extra Rest to mortise through from one side, with Bolt, | 2.00 |
| Staple Punch for Blind Rods, to punch the holes for the staples, | 1.00 |
| Cast Steel Saw Arbor, Bed and Boxes, \$10, \$12, and | 14.00 |
| “ Groover, with Slide Spurs and Cutters, 5-16, $\frac{3}{8}$, 7-16, $\frac{1}{2}$ and $\frac{3}{4}$, | 8.00 |
| Clamp Screws, per pair, | 2.50 |
| Slip Stones to sharpen Chisels, 6 $\frac{1}{2}$ cents each—per dozen, | 60 |
| Sash Moulding and Slat Machine—3 heads—double feed, \$130—boxed, | 133.00 |
| “ “ 6 heads and extra cutters, 155 | 158.00 |
| “ “ extra molding rollers, imp'd, 165 | 168.00 |
| Extra Molding and Rabbeting Heads, from \$5.00 to | 6.00 |
| “ Cutters, per pair, from \$1 to | 1.50 |
| Boring Machine for Blinds, \$50—for Car building, from \$60 to | 75.00 |
| Railway Cut-off Saw, \$50. Long Machine Augers, <i>patent</i> , per quarter, | 20 |
| Improved Scroll Saw, with 12 Saws, | 50.00 |
| Cast Steel Saw Arbors, with Tables, | \$25 to 40.00 |
| “ Saw Arbor, Bed and Boxes, \$10, \$12, and | 14.00 |
| “ Groover, with Side Spurs and Cutters, 5-16; $\frac{3}{8}$, 7-16, $\frac{1}{2}$, and $\frac{3}{4}$, | 8.00 |
| Clamp Screws, per pair, | 2.50 |
| Patent Saw Mills, for sawing Plank into thin boards, | 250.00 |
| Woodworth's Patent Planing and Matching Machine, | \$400 to 1,200.00 |
| “ “ Surfacing Machine, | \$100, \$200, to 450.00 |
| Improved Matching Machines, without Planing, | 250.00 |
| Shafting, Pulleys and Hanging Boxes, turned and polished, per 100 lbs. | 10.00 |

Best Leather Banding at Manufacturer's prices. Also, Engine Lathes, Hand Lathes, Chuck Lathes, Bolt Machines, Iron Planers, Upright Drills, and other Machinists' Tools, generally, at Manufacturers' prices.